

IN THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application. An identifier indicating the status of each claim is provided.

Listing of Claims

1. (currently amended) A digital signal processing apparatus, comprising:
 - a plurality of digital signal processing blocks and a host arithmetic operation processing block as functions necessary for processing a digital signal;
 - a ~~bus~~ common bus for connecting said host arithmetic operation processing block and said plurality of digital signal processing blocks;
 - interface means coupled to said ~~bus~~ common bus to enable a block to be added to the ~~bus~~ common bus or to enable a block connected to the ~~bus~~ common bus to be changed; and
 - means for encrypting data of a stream transferred through said ~~bus~~ common bus.
2. (currently amended) The digital signal processing apparatus as set forth in claim 1, wherein said plurality of digital signal processing blocks include encrypting/decrypting means for encrypting/decrypting the data of the stream transferred through said ~~bus~~ common bus.
3. (original) The digital signal processing apparatus as set forth in claim 1, wherein the data of the stream contains video data and/or audio data.
4. (original) The digital signal processing apparatus as set forth in claim 3, wherein the video data and/or the audio data has been compressed.

5. (currently amended) The digital signal processing apparatus as set forth in claim 1,
wherein said common bus is a general-purpose bus, and
wherein each block connected to said ~~bus~~ common bus can be added or
substituted.
6. (currently amended) A digital signal processing apparatus, comprising:
a plurality of digital signal processing blocks and a host arithmetic operation
processing block as functions necessary for processing a digital signal;
a ~~bus~~ common bus for connecting said host arithmetic operation processing block
and said plurality of digital signal processing blocks;
interface means coupled to said ~~bus~~ common bus to enable a block to be added to
said ~~bus~~ common bus or to enable a block connected to said ~~bus~~ common bus to be changed; and
means for encrypting the data of the stream that is output through said interface of
the extension function providing medium when the data of the stream is transferred to the
extension providing medium through said ~~bus~~ common bus.
7. (original) The digital signal processing apparatus as set forth in claim 6, wherein said
interface of the extension function providing medium includes encrypting/decrypting means for
encrypting/decrypting data of a stream that is output through said interface of the extension
function providing medium.
8. (original) The digital signal processing apparatus as set forth in claim 6, wherein the data of
the stream contains video data and/or audio data.

9. (original) The digital signal processing apparatus as set forth in claim 8, wherein the video and/or audio data has been compressed.

10. (currently amended) A digital signal processing method, comprising the steps of:

structuring functions necessary for processing a digital signal as a plurality of digital signal processing blocks and a host arithmetic operation processing block;

connecting the host arithmetic operation processing block and the plurality of digital signal processing blocks through ~~the bus~~ a common bus;

providing a means coupled to said ~~bus~~ common bus to enable a block to be added to said ~~bus~~ common bus or to enable a block connected to said ~~bus~~ common bus to be changed; and

encrypting data of a stream transferred through the ~~bus~~ common bus.

11. (currently amended) The digital signal processing method as set forth in claim 10, wherein the plurality of digital signal processing blocks include a step for encrypting/decrypting the data of the stream transferred through the ~~bus~~ common bus.

12. (original) The digital signal processing method as set forth in claim 10, wherein the data of the stream contains video data and/or audio data.

13. (original) The digital signal processing method as set forth in claim 12, wherein the video data and/or the audio data has been compressed.

14. (currently amended) The digital signal processing method as set forth in claim 10,
wherein the common bus is a general-purpose bus, and
wherein each block connected to the ~~bus~~ common bus can be added or substituted.
15. (currently amended) A digital signal processing method, comprising the steps of:
structuring functions necessary for processing a digital signal as a plurality of
digital signal processing blocks and a host arithmetic operation processing block;
connecting the host arithmetic operation processing block and the plurality of
digital signal processing blocks through a ~~bus~~ common bus;
providing a means coupled to said ~~bus~~ common bus to enable a block to be added
to said ~~bus~~ common bus or to enable a block connected to said ~~bus~~ common bus to be changed;
and
encrypting the data of the stream that is output through the interface of the
extension function providing medium when the data of the stream is transferred to the extension
function providing medium through the ~~bus~~ common bus.
16. (original) The digital signal processing method as set forth in claim 15, wherein the
interface of the extension function providing medium includes a step for encrypting/decrypting
data of a stream that is output through the interface of the extension function providing medium.
17. (original) The digital signal processing method as set forth in claim 15, wherein the data of
the stream contains video data and/or audio data.

18. (original) The digital signal processing method as set forth in claim 17, wherein the video data and/or the audio data has been compressed.